Project Title					Date				
St	orage Gas								
1.	Recovery Efficiency/AFUE		unitless	From	From manufacturer's literature or appliance database				
2.	Average Hourly Pipe Heat Loss		kBtu/hr		From Pipe Heat Loss Worksheet below				
3.	Rated Input		kBtu/hr From manufacturer's literature of				e		
4.	Effective AFUE		unitless Line 1 - (Line $2 \div \text{Line } 3$ )				·rr		
St	orage Electric								
1.	Average Hourly Pipe Heat Loss		kBtu/hr	From	Pine Heat I	oss Worksheet	below		
2.	Rated Input		•		-	turer's literature or appliance database			
3.			watt From manufacturers literature			appliance database	S		
<i>3</i> . 4.	· ——		unitless		1 - [Line 1 ÷ (3.413 × Line 2)]				
<del>4</del> .			unitless						
			Btu/wat		$3.413 \times (\text{Line } 4 \div \text{Line } 5)$				
6.	Effective HSPF (no fan)				$1.017 \div [(1 \div \text{Line } 6) + 0.005]$				
7.	Effective HSPF (with fan)		Btu/wat	π 1.01	$1.017 \div [(1 \div Line  0) + 0.003]$				
Н	eat Pump								
1.	Energy Factor		unitless	Fron	From manufacturer's literature or appliance database				
2.	Average Hourly Pipe Heat Loss		kBtu/hr		From Pipe Heat Loss Worksheet below				
3.	Rated Input		kW From manufacturer's literature or			e			
4.	Recovery Efficiency		unitless $1 \div [(1 \div \text{Line } 1) - 0.1175]$			or residence			
5.	Climate Zone Adjustment		unitless From table below						
6.				Btu/watt $3.413 \times [(\text{Line } 4 \div \text{Line } 5) - \text{Line } 2 \div (3.413 \times \text{Line } 3)]$					
7.	• • • • • • • • • • • • • • • • • • • •			Btu/watt $5.413 \times [(\text{Line } 4 + \text{Line } 5) + \text{Line } 2 + (5.413 \times \text{Line } 5)]$ Btu/watt $1.017 \div [(1 \div \text{Line } 6) + 0.005]$					
/.	Effective Fig.1 (with full		Dia/ wat	1.01	· [(1 · Lin	0.003			
	Climate Zone	Pipe Heat Loss Rate Table							
	Climate Zone Adjustmen		:	-	Nominal		ion Thickness (inch	· ·	
	1, 14	1.04			er (inches)	0.5	0.75	1.0	
	2, 3	0.99			0.50	71.6	60.9	54.2	
	4, 5, 12 6-11, 13, 15	1.07 0.92			0.75 1.00	91.1 109.9	75.8 90.1	66.6 78.8	
	16	1.50			1.50	146.7	117.5	100.3	
	10	1.50			2.00	182.9	144.3	121.7	
Pi	pe Heat Loss Worksl	heet				1	211,0		
(Co	omplete this section when	more than 10 fee	t of pipe	is in uncon	ditioned spa	ce.)			
			2 P	ipe Heat					
1.	Description of Pipe Size a	and Insulation	Loss Rate 3. Pipe Length (ft)		e Length (ft)	4. Total Pipe	;		
	Condition			(kBtu/yr•ft)¹			Heat Loss		
					×		=		
					×	=	_		
				× =					
				× =					
× =								_	
			-		<u>-</u>	5. Sum	=	_	
6.	Average Hourly Pipe Heat	Loss (kBtu/hr) =	= Sum ÷	8760 =			_	_	
		( )	,===				<del>_</del>		

1. From Pipe Heat Loss Rate Table.1

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